

Active Recombinant Human Chemokine (C-C Motif) Ligand 18 (Pulmonary And Activation-Regulated)

Cat. No. CCL18-300H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Macrophage Inflammatory Protein-4 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 69 amino acids and having a molecular mass of 7813 Daltons.
Species	Human
Source	E.coli
Description	Chemokine (C-C motif) ligand 18 (CCL18) is a small cytokine belonging to the CC chemokine family that was previously called PARC (pulmonary and activation-regulated chemokine).
Form	Lyophilized with no additives.
Purity	Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	Human Macrophage Inflammatory Protein-4 is fully biologically active when compared to standard. The Activity is calculated by the ability to chemoattract Human T lymphocytes at 1.0-8.0 ng/ml.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and

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wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/s/ml, which can be further diluted into other aqueous solutions.

Purity Greater than 98% as determined by

Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.

Protein Content determined by

UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.

Endotoxin Level

Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.

Amino acid sequence

AQVGTNKELC CLVYTSWQIP QKFLVDYSET SPQCPKPGVI LLTKRGRQIC
ADPNKKWVQK YISDLKLNA

Storage

Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

GENE INFORMATION

Gene Name

CCL18 chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated) [Homo sapiens]

Official Symbol

CCL18

Synonyms

CKb7; PARC; AMAC1; DCCK1; MIP-4; AMAC-1; DC-CK1; SCYA18;
CCL18_HUMAN; C-C motif chemokine 18 [Precursor]; Small-inducible cytokine A18; Macrophage inflammatory protein 4; pulmonary and activation-regulated

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chemokine;CC chemokine PARC;Alternative macrophage activation-associated CC chemokine 1; Dendritic cell chemokine 1; CCL18; chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated)

Gene ID	6362
mRNA Refseq	NM_002988
Protein Refseq	NP_002979
MIM	603757
UniProt ID	P55774
Chromosome Location	17q11.2
Pathway	chemokine activity
Function	Cytokine-cytokine receptor interaction

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